

Application Serial No. 10/023,279  
Amendment dated September 17, 2004  
Reply to final Office action of June 4, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A biosensor for detecting contents of biochemical components in a sample, comprising:
  - an electrically insulating substrate;
  - a working electrode disposed on said substrate;
  - a reference electrode disposed on said substrate which is spaced from said working electrode;
  - a reaction layer disposed on said working electrode and said reference electrode, wherein said reaction layer and said electrodes form a reaction area for reacting with the sample;
  - an electrically insulating layer disposed on said substrate and having an opening for receiving the sample, wherein said opening exposes a portion of said reaction area and the end of said opening is located at the edge of the biosensor; and
  - a reticular covering layer which covers said opening and ~~the~~ an end of said opening of said insulating layer, wherein said reticular layer and said insulting layer form a sampling area from said reticular covering area to ~~the~~ an edge of ~~said the~~ said the biosensor.
2. (Previously presented) The biosensor of claim 1, wherein said substrate further has an indentation, a notch, or a protrusion, serving as a sample contact point, under the end of said opening in said insulating layer.
3. (Previously presented) The biosensor of claim 1, wherein said working electrode has a size the same as, smaller than or larger than that of said reference electrode.
4. (Original) The biosensor of claim 1, wherein said reaction layer is made of a formula comprising an enzyme, a carrier, an electrical medium and a surfactant.
5. (Original) The biosensor of claim 4, wherein said carrier is a micro cellulose, methyl cellulose, carboxylrnethyl-cellulose, starch, vinyl alcohol, vinyl pyrrolidone, PVA, PVP, PEG, or gelatin.
6. (Previously presented) The biosensor of claim 4, wherein said carrier ranges from

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0.05 weight percent to 1.5 weight percent of the formula.

7. (Original) The biosensor of claim 4, wherein said electrical medium is potassium ferricyanide.

8. (Original) The biosensor of claim 4, wherein said surfactant is Triton X-100, Triton C-405, Triton X-114, sodium lauryl sulfate, polyoxyethylenesorbitan monolaurate (Tween 20), Tween 40, Tween 60, Tween 80, or other water-soluble surfactant or detergent.

9. (Previously presented) The biosensor of claim 4, wherein said surfactant ranges from less than 0.1 weight percent of the formula.

10. (Currently amended) The biosensor of claim 1, wherein said electrically insulating layer is polypropylene PP, polyvinylchloride PVC, polyethylene terephthalate PET, polycarbonate PC, polyethylene PE, or other insulating plastic materials.

11. (Original) The biosensor of claim 1, wherein said electrically insulating layer has a thickness from 0.25 to 0.35 mm.

12. (Previously presented) The biosensor of claim 1, which further comprises a separating layer with an opening which is disposed on and overlays said insulting layer wherein said separating layer and said insulating layer form a space, wherein said opening in said separating layer overlays said opening in said insulating layer.

13. (Original) The biosensor of claim 1, wherein said reticular covering layer is made of a hydrophilic reticular material or a hydrophobic reticular material or metal wire reticular material.

14. (Previously presented) The biosensor of claim 1, wherein the reticular covering layer has 60 to 300 meshes.

15. (Previously presented) The biosensor of claim 1, wherein the reticular covering layer is a hydrophobic reticular material which is optionally processed by a surfactant, plasma or corona.

16. (Original) The biosensor of claim 15, wherein the surfactant is Triton X-100, 5 Triton X-405, Triton X-114, sodium lauryl sulfate, polyoxyethylenesorbitan monolaurate (Tween20), Tween40, Tween60, Tween80, or other water-soluble surfactant or detergent.